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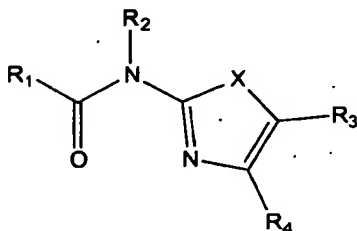
IN THE CLAIMS:

Please amend the claims as follows:

Cheryl Farine
Dan Hudak 330-535-2220

Called 6/30/06

1. (Currently Amended) ~~A methionine aminopeptidase inhibitor represented by comprising: a compound having the general formula~~
formula



I-VI

wherein

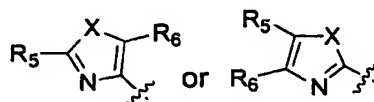
consisting of
 R₁ is selected from the group ~~consisting of~~ comprising

- (1) C₁-C₄ alkyl,
 (2) C₃-C₆ cycloalkyl,
 (3) Aryl,
 (4) 2-, 3- or 4- pyridyl,

where (1) and (2) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group consisting of comprising halogen atoms, C₁-C₆ alkoxy or hydroxy, and

where (3) and (4) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group consisting of comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, alkylthio, and

(5) heterocycle having the following structure:



where R_5 , R_6 are selected independently from the group ~~consisting of~~
~~comprising~~ *consist of*

- (a) hydrogen,
- (b) C_1 - C_4 alkyl
- (c) C_3 - C_6 cycloalkyl,
- (d) Aryl,
- (e) 2-, 3- or 4- pyridyl,

where (b) and (c) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~
~~comprising~~ halogen atoms, C_1 - C_6 alkoxy or hydroxy,
and

where (d) and (e) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~
~~comprising~~ C_1 - C_4 alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino,
acylamide, alkylthio,

X is selected from the group ~~consisting of~~ ~~comprising~~ O, S, N;

R_2 is selected from the group ~~consisting of~~ ~~comprising~~

- (1) hydrogen,
- (2) C_1 - C_4 alkyl,
- (3) C_3 - C_6 cycloalkyl,
- (4) Aryl,

where (2) and (3) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~
~~comprising~~ halogen atoms, C_1 - C_6 alkoxy or hydroxy,
and

where (4) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ ~~comprising~~ C_1 - C_4 alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, alkylthio;

R_3 is selected from the group ~~consisting of~~ ~~comprising~~

- (1) hydrogen,
- (2) halogen atoms,
- (3) C₁-C₄ alkyl, which can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising halogen atoms, C₁-C₆ alkoxy or hydroxy,
- (4) Aryl, which can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, alkylthio;

R₄ is selected from the group ~~consisting of~~ comprising

- (1) hydrogen,
- (2) C₁-C₄ alkyl, which can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising halogen atoms, C₁-C₆ alkoxy or hydroxy,
- (3) Aryl, which can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, carbonylamide, alkylthio, methylthio, ethylthio;

X is selected from the group ~~consisting of~~ comprising O, S, N.

II-VI
2. (Currently Amended) A methionine aminopeptidase inhibitor according to claim 1 in which

R₁ is selected from the group ~~consisting of~~ comprising 2-, 3- or 4- pyridyl, each can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, halogen atoms, nitro, carboxyl, aldehyde, alkoxy, alkoxycarbonyl, alkylamino, acylamide;

R₂ is selected from the group ~~consisting of~~ comprising

- (1) hydrogen,

- (2) C₁-C₆ alkyl,
- (3) C₂-C₆ alkenyl,
- (4) C₂-C₆ alkynyl,
- (5) C₃-C₆ cycloalkyl
- (6) Aryl,
- (7) benzyl

where (2) and (5) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising halogen atoms, C₁-C₆ alkoxy or hydroxy, and

where (6) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, carbonylamide, alkylthio;

R₃ is selected from the group ~~consisting of~~ comprising hydrogen, Br, C₁-C₄ alkyl;

R₄ is selected from the group ~~consisting of~~ comprising

- (1) hydrogen,
- (2) C₁-C₄ alkyl,
- (3) Aryl,

where (3) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, carbonylamide, alkylthio;

3. (Currently Amended) A methionine aminopeptidase inhibitor according to claim 1 in which

R₁ is selected from the group ~~consisting of~~ comprising aryl, which can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising nitro, alkylamino, halogen atoms, C₁-C₄ alkoxy, hydroxy, carboxyl, benzyl;

I-IV

R₂ is selected from the group ~~consisting of~~ comprising hydrogen, C₁-C₄ alkyl;

R₃ is selected from the group ~~consisting of~~ comprising hydrogen, halogen atoms, C₁-C₄ alkyl;

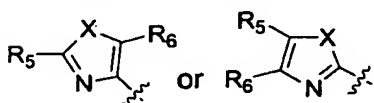
R₄ is selected from the group ~~consisting of~~ comprising

- (1) hydrogen,
- (2) C₁-C₄ alkyl,
- (3) Aryl,

where (3) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~ comprising C₁-C₄ alkyl, halogen atoms, nitro, carboxyl, aldehyde, alkoxy, alkylamino, acylamide, alkylthio.

4. (Currently Amended) A methionine aminopeptidase inhibitor according to claim 1 in which

R₁ is selected from the following heterocycle structure:



X is selected from the group ~~consisting of~~ comprising O, S, NH;

R₂ is selected from the group ~~consisting of~~ comprising hydrogen, C₁-C₄ alkyl;

R₃ is hydrogen;

R₄ is hydrogen;

R₅, R₆ are selected independently from the group ~~consisting of~~ comprising

- (a) hydrogen,
- (b) C₁-C₄ alkyl,
- (c) C₃-C₆ cycloalkyl,
- (d) Aryl,
- (e) 2-, 3- or 4- pyridyl,

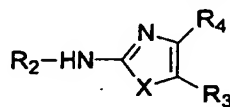
where (b) and (c) can be optionally substituted with 1, 2, or 3 substituents independently selected from the group ~~consisting of~~

comprising halogen atoms, C₁-C₆ alkoxy or hydroxy,
and

where (d) and (e) can be optionally substituted with 1, 2, or 3
substituents independently selected from the group ~~consisting of~~
comprising C₁-C₄ alkyl, nitro, carboxyl, aldehyde, alkoxy, alkylamino,
acylamide, alkylthio,

X

5. (Original) A process for the preparation of a methionine
aminopeptidase inhibitor as defined in claim 1 which comprises
condensating of a compound of the general formula R₁COY with a
compound of the general formula



in which Y represents hydroxyl, halogen atoms and the other activated
group.

X

6. (Original) A process for the preparation of a methionine
aminopeptidase inhibitor as defined in claim 5 wherein the dehydration
reagents used in this reaction may be DCC, ECD, DIC, HBTU.

X

7. (Original) A process for the preparation of a methionine
aminopeptidase inhibitor as defined in claim 5 wherein the solvent used in
this condensation reaction may be CH₂Cl₂, DMF, CH₂ClCH₂Cl, toluene,
benzene, H₂O, dioxane or the mixture of the above solvents.

X

8. (Original) A process for the preparation of a methionine
aminopeptidase inhibitor as defined in claim 5 wherein the reaction
temperature is from -20°C to room temperature, in some cases, the heating
is necessary, from 50° C to 130°C.

~~IX~~

9. (Original) A process for the preparation of a methionine aminopeptidase inhibitor as defined in claim 5 wherein the proper activated reagents of the condensation reaction were used, such as, HOBT pentafluorophenol, molecular series.

~~IX~~

10. (Original) A process for the preparation of a methionine aminopeptidase inhibitor as defined in claim 5 wherein the proper base of the condensation reaction such as Et_3N , $\text{I-Pr}_2\text{EtN}$, Pyridine, DMAP were used as catalyst.

~~IX~~

11. (Original) A methionine aminopeptidase inhibitor as claimed in claim 1, wherein these compounds were used as antitumor, and anti-infection drugs.

Respectfully submitted,

HUDAK, SHUNK & FARINE CO. LPA

A handwritten signature in black ink, appearing to read "Daniel J. Hudak". The signature is fluid and cursive, with the first name "Daniel" being the most prominent.

By: Daniel J. Hudak

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